

RJCAB-C SPECIFICATION DATA SHEET

CABLE TYPE FTP STRANDED PUR (26AWG), CATEGORY 5 ENHANCED (CAT 5E)

GENERAL DESCRIPTION Local Area Network, high speed data communication
cable for structured wiring systems

RELEVANT STANDARDS Complies with standards ISO/IEC 11801, IEC1156

CONSTRUCTION
COMPONENT MATERIAL BREAKDOWN DIAMETER

Insulated core

Conductor 26AWG stranded plain annealed copper wire $0.48 \pm 0.02\text{mm}$

Insulation High density polyethylene $0.90 \pm 0.05\text{mm}$
Nominal wall RT = 0.21mm

Cable twins

Twins 2 Cores twisted together with staggered $1.80 \pm 0.10\text{mm}$
lays to the colour code as shown below

Colour code Pair 1) blue - white/blue
Pair 2) brown - white/brown
Pair 3) green - white/green
Pair 4) orange - white/orange

Final construction

Lay up 4 pairs items 1 to 4 cabled together $3.90 \pm 0.20\text{mm}$
to form a 4 pair cable unit, polyester
binder longitudinally applied over pairs

Screen Longitudinally apply an alum/poly laminate $4.00 \pm 0.20\text{mm}$
Incorporate a 26AWG tinned drain wire

Sheathing Polyurethane $5.40 \pm 0.20\text{mm}$
Nominal wall RT = 0.70mm

Minimum Bend Radius - $12 \times \text{Cable Diameter} = 65\text{mm}$

Weight 33 kg/km (nominal)

WEB503 FTP PATCH PUR electrical characteristics @ 20oC

Characteristic	Units	MHz	Value
Attenuation	dB/100m Max.	1	3.1
		4	5.7
		10	8.6
		16	10.8
		20	12.5
		31.25	15.5
		62.5	22.0
		100.0	27.5
NEXT (PSNEXT)	dB Min.	1	65.3 (62.3)
		4	56.3 (53.3)
		10	50.3 (47.3)
		16	47.3 (44.3)
		20	45.8 (42.8)
		31.25	42.9 (39.9)
		62.5	38.4 (35.4)
		100.0	35.3 (32.3)
Impedance	Ω	0.064	125 \pm 25
		1 to 100	100 \pm 15
Resistance unbalance	% Max.		3
Conductor loop resistance	Ω /100m Max.		30
Vp	Nom.		0.66c
Capacitance	pF/m Nom.	0.001	52
d.c. Insulation resistance	M Ω km Min.		150
Dielectric strength for 1 minute	V a.c.		700

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